

IAP13 REC'D PTO 12 DEC 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                               |   |                   |
|-------------------------------|---|-------------------|
| In re Patent Application of   | ) |                   |
| Gert STAUCH et al.            | ) | Group Art Unit:   |
| Application No.: Unassigned   | ) | Examiner:         |
| Filed: December 12, 2005      | ) | Confirmation No.: |
| For: ULTRASONIC STANDING-WAVE | ) |                   |
| ATOMIZER ARRANGEMENT          | ) |                   |
|                               | ) |                   |
|                               | ) |                   |
|                               | ) |                   |

## FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

The relevance of the listed documents is their citation in the International Search Report and German Search Report in the corresponding PCT application.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date December 12, 2005

By: 

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|   |        |                          |                             |
|---|--------|--------------------------|-----------------------------|
| Substitute for form 1449A/PTO & 1449B/PTO   |        | <b>Complete if Known</b> |                             |
| <b>FIRST<br/>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |        | Application Number       | Unassigned <b>10/560278</b> |
|   |        | Filing Date              | December 12, 2005           |
|   |        | First Named Inventor     | Gert STAUCH et al.          |
|   |        | Examiner Name            |                             |
| Sheet   | 1 of 1 | Attorney Docket Number   | 034193-034                  |

| U.S. PATENT DOCUMENTS |                 |                      |   |                                     |
|-----------------------|-----------------|----------------------|---|-------------------------------------|
| Examiner Initials     | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
|                       | 4,981,425       |                      | Lierke et al.                                   | 01-01-1991                          |
|                       | 5,164,198       | A                    | Bauckhage et al.                                | 11-17-1992                          |
|                       | 2002/0156400    | A1                   | Babaev  | 10-24-2002                          |
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| FOREIGN PATENT DOCUMENTS |                 |                      |         |                                  |             |        |                      |               |                        |
|--------------------------|-----------------|----------------------|---------|----------------------------------|-------------|--------|----------------------|---------------|------------------------|
| Examiner Initials        | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | STATUS      |        |                      |               |                        |
|                          |                 |                      |         |                                  | Translation | Report | International Search | German Search | Cited in Specification |
|                          | *28 42 232      | A1                   | Germany | 04-17-1980                       |             | X      |                      |               |                        |
|                          | *43 28 088      | A1                   | Germany | 02-23-1995                       |             | X      |                      | X             |                        |
|                          | *39 39 178      | A1                   | Germany | 05-29-1991                       |             |        | X                    | X             |                        |
|                          | *37 35 787      | A1                   | Germany | 03-30-1989                       |             |        | X                    | X             |                        |
|                          | *29 06 823      | A1                   | Germany | 09-04-1980                       |             |        | X                    |               |                        |
|                          | *0 308 600      | A1                   | Europe  | 03-29-1989                       |             |        | X                    | X             |                        |
|                          | *0 257 825      | A2                   | Europe  | 03-02-1988                       |             |        | X                    |               |                        |
|                          | *0 251 524      | A2                   | Europe  | 01-07-1988                       |             |        | X                    |               |                        |
|                          | *02/46097       | A1                   | WO      | 06-13-2002                       |             |        | X                    | X             |                        |
|                          | *58-174842      | A                    | Japan   | 10-13-1983                       |             |        | X                    |               | X                      |
|                          |                 |                      |         |                                  |             |        |                      |               |                        |

| NON-PATENT LITERATURE DOCUMENTS |   |
|---------------------------------|---|
| Examiner Initials               | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|                                 | *HEINRICH KUTTRUFF, "FOKUSSIERUNG VON ULTRASCHALL", Physik und Technik des Ultraschalls", 1988, pages 121-124, S. Hirzel Verlag Stuttgart   |
|                                 | *MICHAEL M. RIELAENDER, "REALLEXIKON DER AKUSTIK", Bibliothek des Deutschen Patentamtes, September 3, 1982, pages 154 and 444-445, Verlag Erwin Bochinsky, Frankfurt/Main   |
|                                 | *ALFONSO BARONE et al., "FLEXURAL VIBRATING FREE-EDGE PLATES WITH STEPPED THICKNESSES FOR GENERATING HIGH DIRECTIONAL ULTRASONIC RADIATION", The Journal of the Acoustical Society of America, 1972, pages 953-959, Volume 51, Number 3 (Part 2)                |
|                                 | *International Search Report dated October 8, 2004 (with English translation of category of cited documents).   |
|                                 | *German Search Report dated August 27, 2003 (with English translation of category of cited documents).  |

\*Copy attached.

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.  
Form Letters I